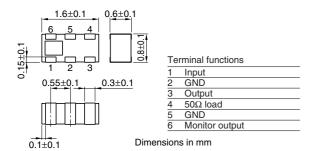
&TDK

Multilayer Chip Directional Couplers For 2.4GHz W-LAN

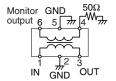
Conformity to RoHS Directive

HHM Series HHM2241SA1

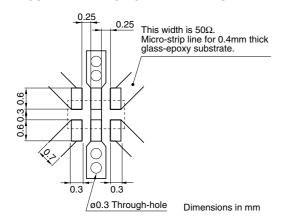
SHAPES AND DIMENSIONS



CIRCUIT DIAGRAM



RECOMMENDED PC BOARD PATTERNS



ELECTRICAL CHARACTERISTICS

Frequency range		2400 to 2500MHz
Coupling factor		-12.0±1.0dB
Insertion loss		0.45dB max.*1
insertion loss		0.50dB max.*2
Isolation		22dB min.
VSWR		1.5 max.
Temperature range	Operating	–40 to +85°C
	Storage	-40 to +85°C

^{*1 25°}C

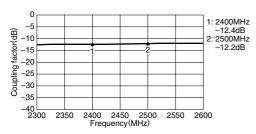
• Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

^{*2} Operating temperature

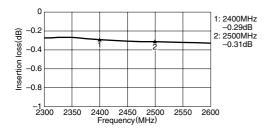
[•] All specifications are subject to change without notice.



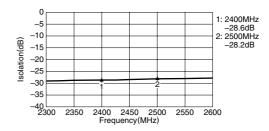
FREQUENCY CHARACTERISTICS COUPLING



INSERTION LOSS



ISOLATION



VSWR

